Using LCTA to Document Changes in Natural Resources at Fort McCoy, WI

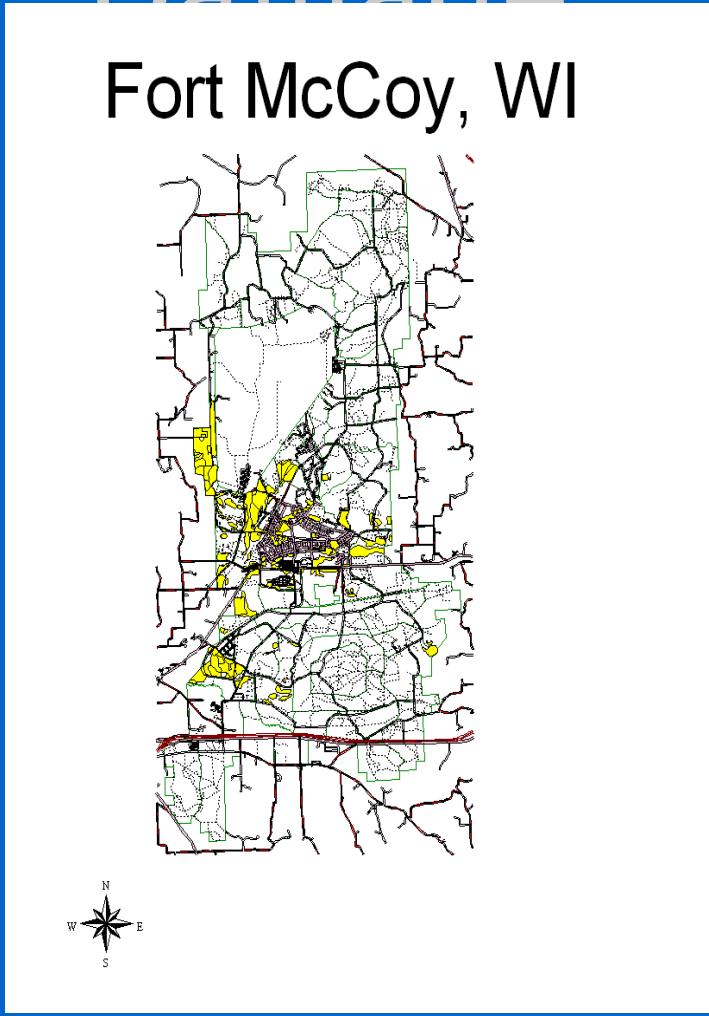
Mike Williams

Special projects

*storm damage
*oak savanna restoration

(funded by DOD Forestry Reserve)

Windstorm Path and Damage



Question:

How will storm damage and salvage work influence training and guide forest management for regeneration?

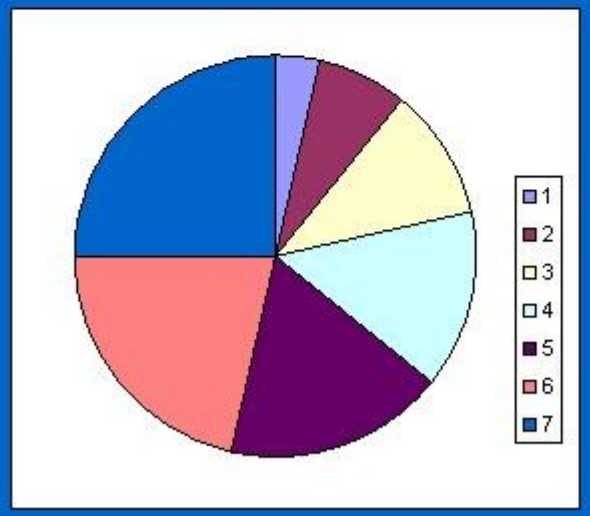
PONSSE

Question:

Are oak savanna restoration efforts satisfying **both** military training and natural resource stewardship needs?

Monitoring

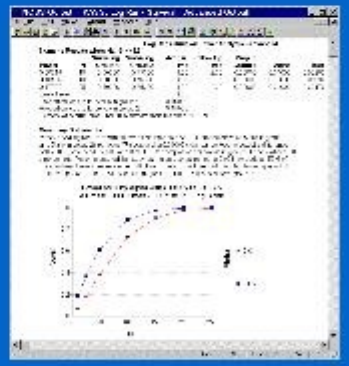
- Military and Biological Focus
- Baseline Data Documentation
- Recommendations and Implications



Data Analysis

$$Y_{ij} = \upsilon + \alpha_i + \varepsilon ij$$

Reports



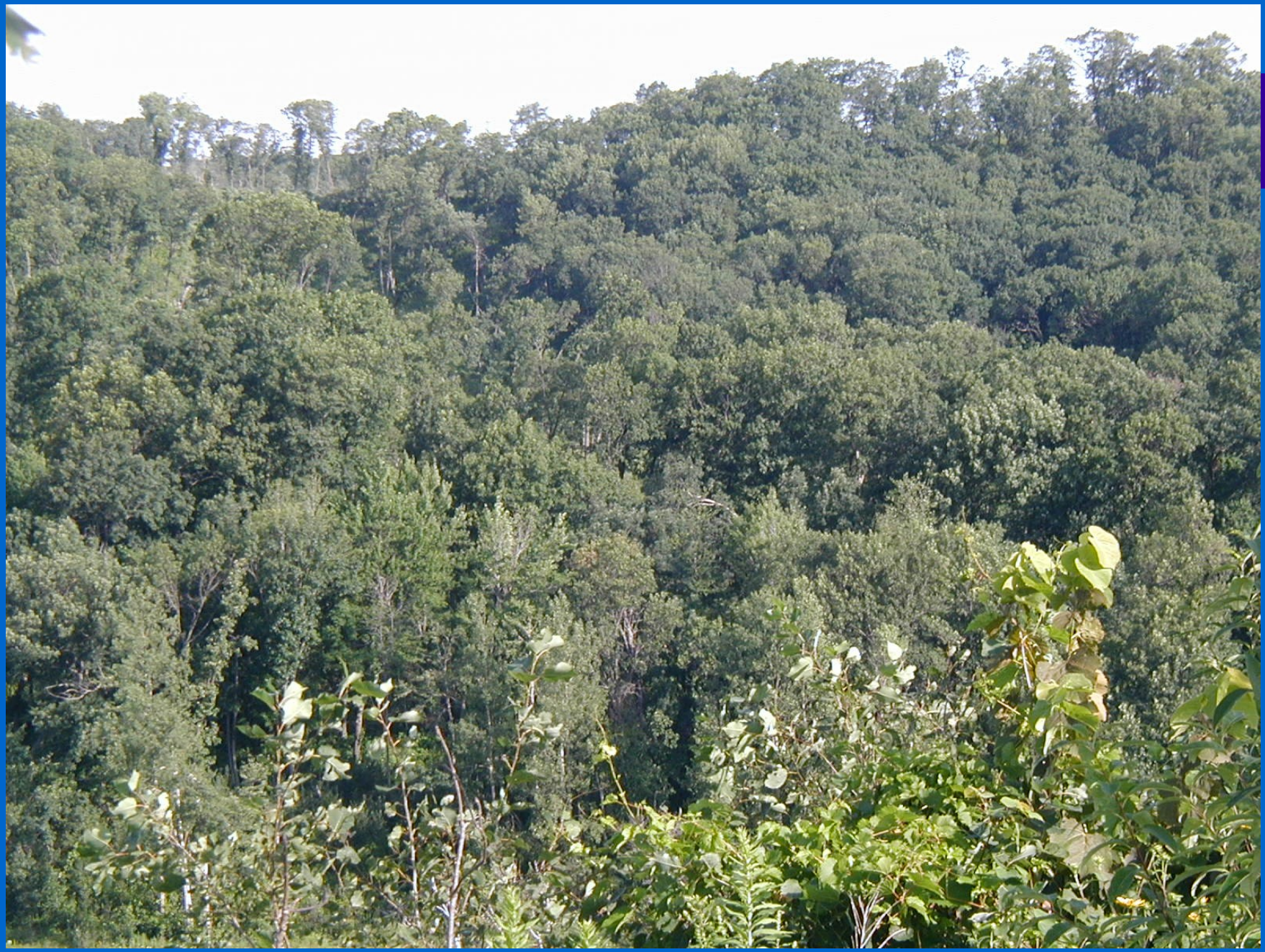
Database

$$\frac{\sigma_e^2 + n\sigma_a^2}{\sigma_e^2}$$

Methods

Storm Damage Design

Were damaged forest types (pole/saw logs) different from

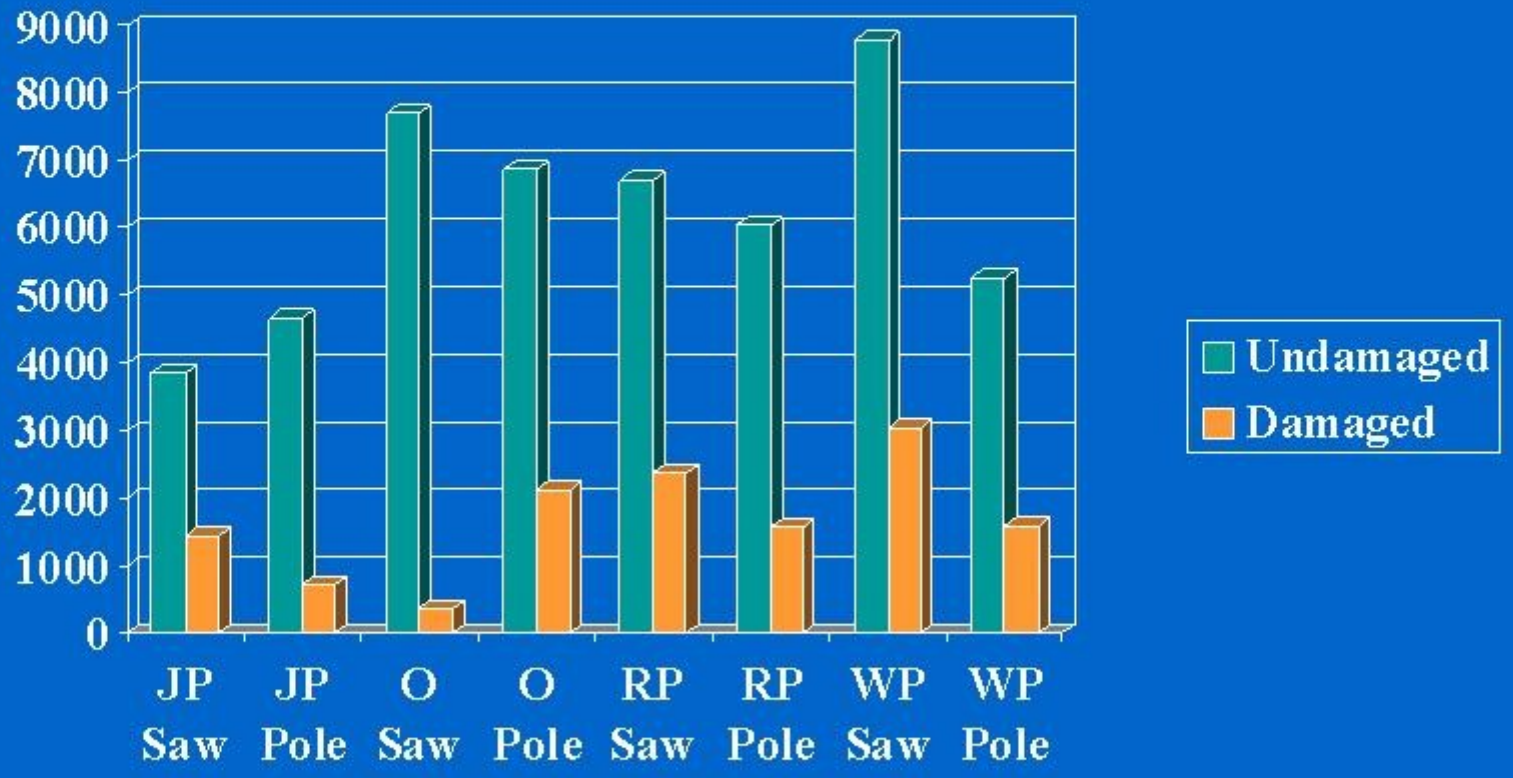


Oak Savanna Design

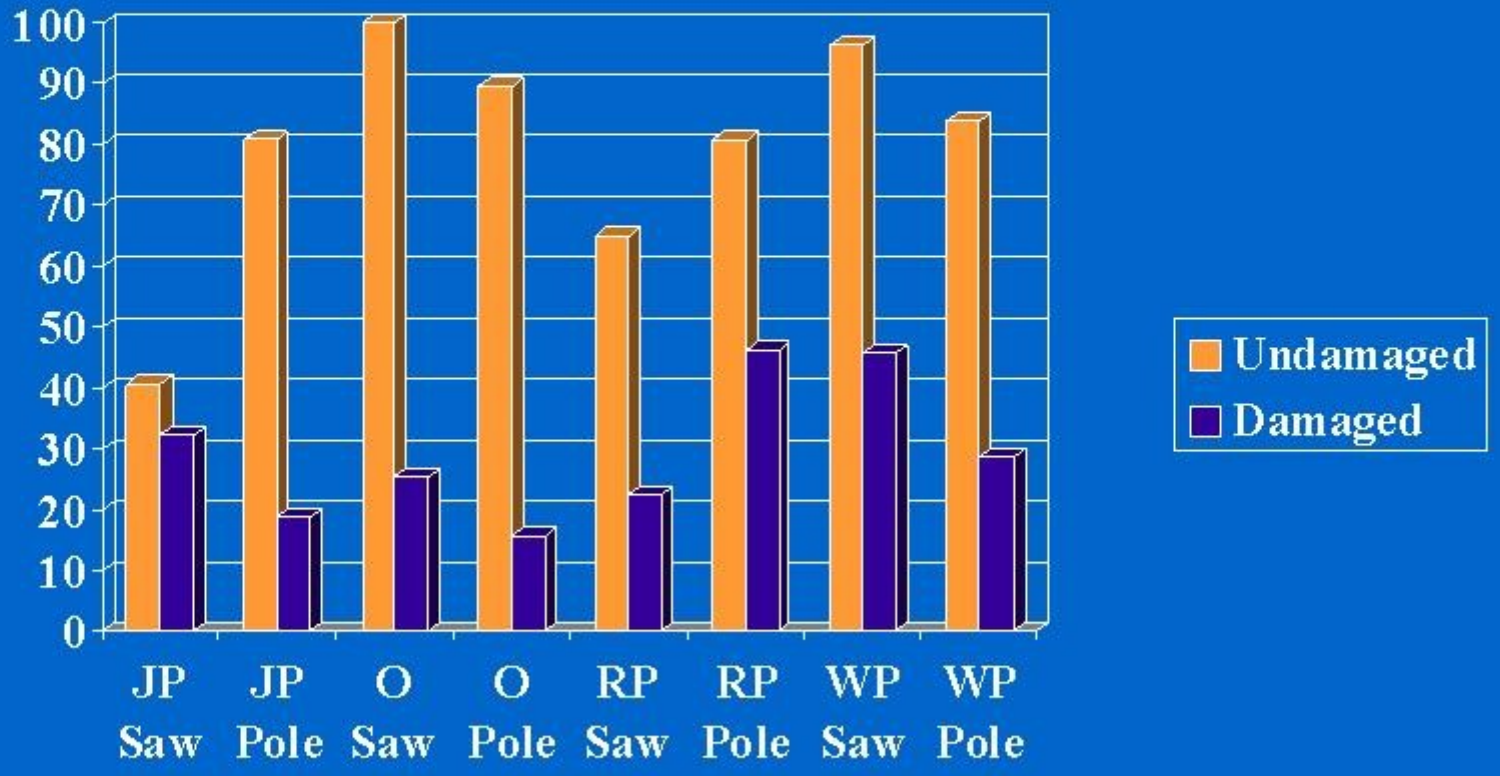
Results

Storm Damage Monitoring

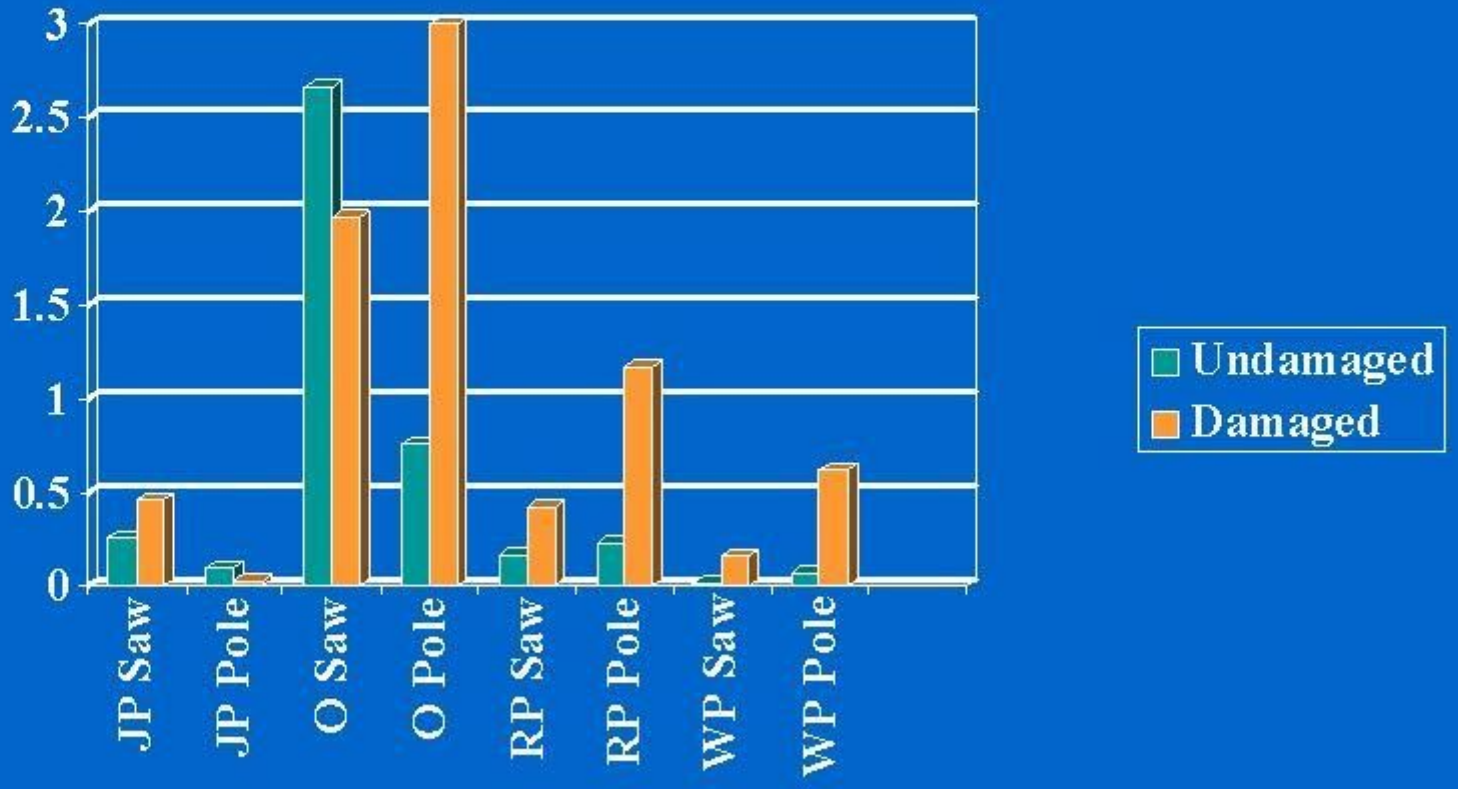
Basal Area Reduction by Stand



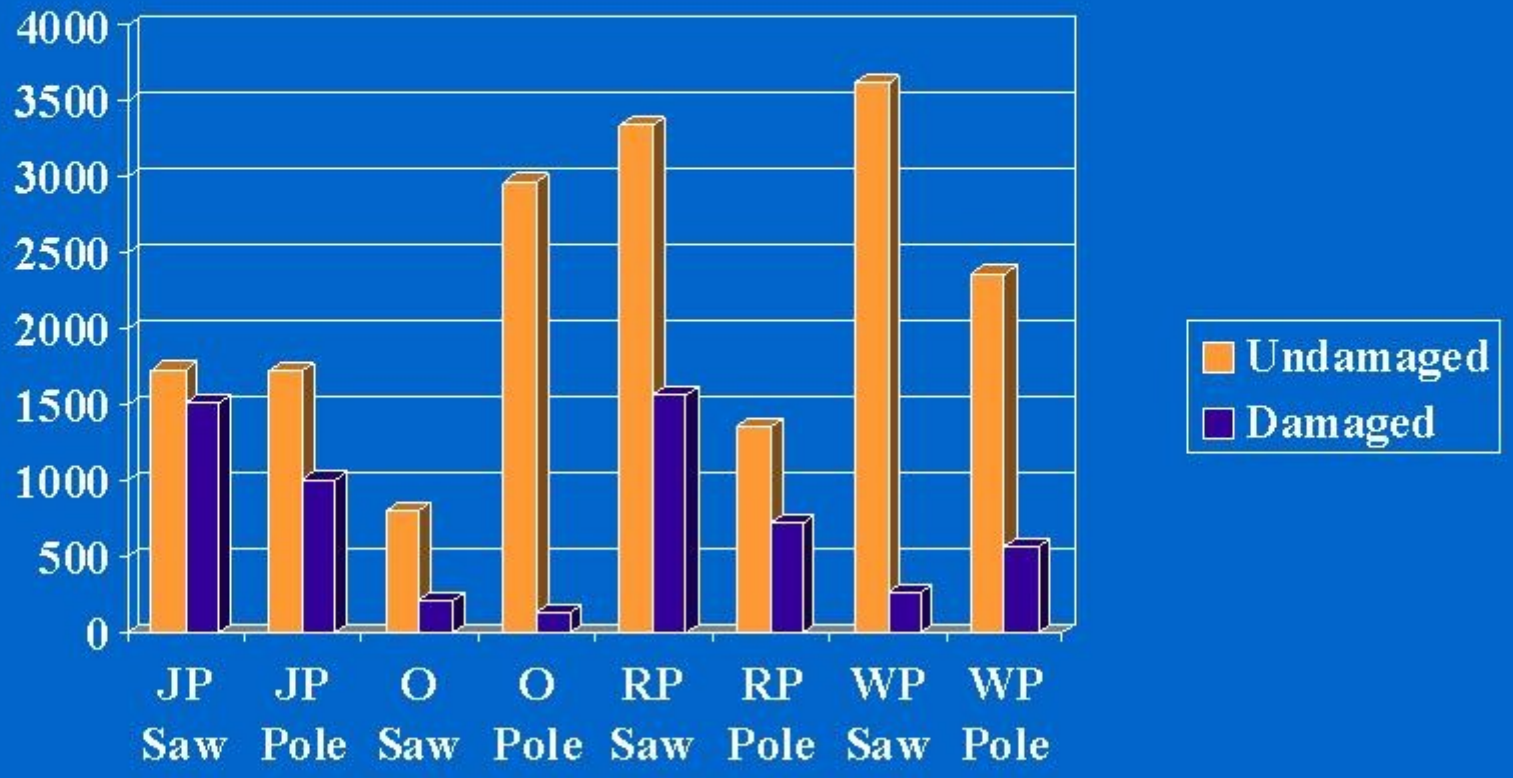
Canopy Reduction by Stand



Erosion Status by Stand



Seedlings by Stand



Results

Oak Savanna Monitoring

Seed bank

- big bluestem
- lead plant
- flowering spurge
- Pennsylvania sedge

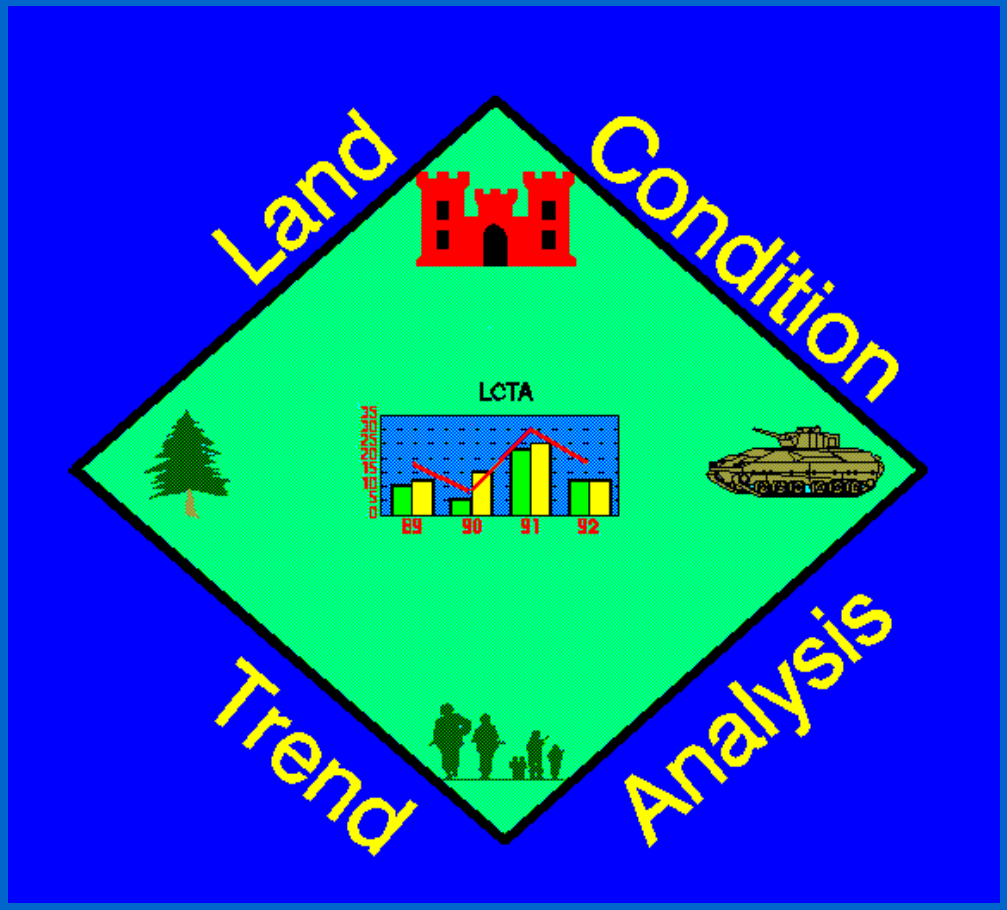
Discussion/Benefits

Tactical concerns

Natural resource concerns

*Vegetation changes
*High relief/wetlands
*Status/exotic species

Questions?



For more information:

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